

WHAT IS CLAIMED IS:

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1. A wireless mouse and reader combination, comprising:
 - a source of an interrogating field;
 - a wireless mouse having a movable XY encoder, a plurality of mouse control buttons, at least one antenna, and one or more passive transponder circuits coupled to the at least one antenna and associated with the XY encoder and plurality of mouse control buttons and providing a response to the interrogating field identifying XY encoder motion and mouse control button activation; and
 - a reader including a decoder for determining the response from the passive transponder circuits.
 2. A wireless mouse and reader combination as set out in claim 1, wherein said XY encoder comprises a ball adapted to rotate in response to mouse motion and X and Y encoder wheels coupled to the ball so as to respectively rotate in response to mouse motion in perpendicular directions.
 3. A wireless mouse and reader combination as set out in claim 2, wherein said XY encoder wheels further comprise a circuit element coupled to said one or more passive transponder circuits so as to tune and detune said one or more passive transponder circuits in response to mouse motion in X and Y directions.
 4. A wireless mouse and reader combination as set out in claim 3, wherein said circuit element comprises a circuit element magnetically coupled to said one or more passive transponder circuits.
 5. A wireless mouse and reader combination as set out in claim 3, wherein said circuit element comprises a circuit element capacitively coupled to said one or more passive transponder circuits.

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6. A wireless mouse and reader combination as set out in claim 1, wherein said interrogating field includes first and second frequencies and wherein said one or more passive transponder circuits comprise first and second passive transponder circuits resonant at said first and second frequencies, respectively.

7. A wireless mouse and reader combination as set out in claim 6, wherein said at least one antenna comprises first and second antennas respectively coupled to said first and second passive transponder circuits.

8. A computer system, comprising:

a monitor;

a processor;

a wireless mouse having an XY encoder, a plurality of mouse control buttons, at least one antenna, and one or more passive transponder circuits coupled to the at least one antenna and associated with the XY encoder and plurality of mouse control buttons and providing a response to the interrogating field identifying XY encoder motion and mouse control button activation; and

a reader including a source of an interrogating field applied to the antenna of the mouse and a decoder for determining the response from the passive transponder circuits.

9. A method for wireless transmission of data between a wireless mouse and a reader, comprising:

providing an interrogating field from the reader to the wireless mouse;

receiving the interrogating field at an antenna configured in the wireless mouse; and

modulating a return field in response to movement of an XY encoder in the mouse forming part of a tuned circuit including the antenna configured in the

wireless mouse to thereby encode XY mouse movement information in the modulated return field.

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TOP SECRET